

REMARKS

Claims 1-12, 14, 15 and 17-28 are now present in this application.

Claims 1, 5, 7, 8, 10-12, 14, 15 and 17-20 have been amended, claims 13 and 16 have been cancelled without prejudice or disclaimer, and claim 28 has been presented. Reconsideration of the application, as amended, is respectfully requested.

Claims 1, 3, 5-8, 10, 12, 14, 15, 17 and 19-27 stand rejected under 35 USC 103 as being unpatentable over Dadafshar, U.S. Patent 6,420,953, in view of Holl et al., U.S. Publication 2002/0148640. This rejection is respectfully traversed.

Claims 4 and 13 stand rejected under 35 USC 103 as being unpatentable over Dadafshar in view of Holl, and further in view of Fushimi, U.S. Patent 6,650,218. This rejection is respectfully traversed.

Claims 2, 9, 11 and 18 stand rejected under 35 USC 103 as being unpatentable over Dadafshar in view of Holl, and further in view of Smith, U.S. Patent 5,175,525. This rejection is respectfully traversed.

It is noted that Dadafshar discloses a multi-layer and multi-functioning printed circuit board (PCB), which defines a magnetic component formed using planar technology and multiple PCBs, each having four or six layers and each including a single winding.

The magnetic component of Dadafshar is different from the coil module of the present application. Referring to FIG. 2, each coil trace 204, 224, 264 or 284 of Dadafshar is formed and exposed on a laminated material surface. However, the coil module of the present application has a predetermined loop number of coils and is wholly encapsulated by an encapsulator. The magnetic component of Dadafshar utilizes laminated material, and forms and exposes the coil

trace on the surface thereof. However, the coil module of the present application adopts a loop number of coils and wholly encapsulates the coils with the encapsulator. The structure of the magnetic component of Dadafshar is also different from the structure of the coil module of the present application. The secondary references fail to overcome the deficiencies of the primary reference to Dadafshar. Accordingly, one of ordinary skill in the art would not achieve the coil module of the present application in view of the prior art utilized by the Examiner.

In addition, claim 10 has been amended to particularly point out the feature of a transformer of the present application. The transformer includes a core, a first coil module, and a second coil module. The second coil module is arranged around the first coil module on a substantially same plane. This combination of features is not found or suggested in the prior art utilized by the Examiner.

Claim 19 has been amended to particularly point out the feature of a coil module of the present application. The coil module includes a conductive strip having a plurality of coil portions which are folded as a stack of coils and at least one insulating spacer disposed between each two adjacent folded coil portions. In addition, an encapsulator encapsulates the coils. This combination of features is not found or suggested in the prior art utilized by the Examiner.

In view of the foregoing amendments, it is respectfully submitted that independent claims 1, 10, 19 and 20, as well as their dependent claims, are neither taught nor suggested by the prior art utilized by the Examiner. Reconsideration and withdrawal of the 35 USC 103 rejection are respectfully requested.

Favorable reconsideration and an early Notice of Allowance are earnestly solicited.

Application No. 10/701,246
Amendment dated January 26, 2006
Reply to Office Action of October 27, 2005

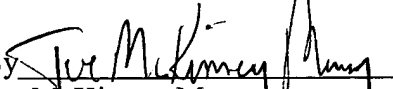
Docket No.: 2519-0114PUS1

In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: January 27, 2006

Respectfully submitted,

By 

Joe McKinney Muncy

Registration No.: 32,334

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road

Suite 100 East

P.O. Box 747

Falls Church, Virginia 22040-0747

(703) 205-8000

Attorney for Applicant